李明

(+86) 138-1234-5678 example@qq.com github.com/ExampleCoder
清华大学 软件工程 • 硕士 北京

教育背景

2021.09 – 2025.06 | **清华大学** • 计算机科学与技术系
软件工程 • 硕士

2023.07 | **校级荣誉** • 校优秀毕业生
校一等奖学金 • 综测专业第一

技能和语言

编程语言 Python（主要）, 熟悉异步编程和装饰器，对数据科学库（如 Pandas、NumPy）有深入了解;JavaScript
机器学习 熟悉 TensorFlow 和 PyTorch 框架，了解深度学习模型的训练与优化，能够进行模型部署和推理
数据分析 熟练使用数据可视化工具（如 Matplotlib、Seaborn），能够进行数据清洗、特征工程和统计分析
并行计算 熟悉 MPI 和 OpenMP 并行编程模型，能够设计高效的并行算法，优化计算性能
云计算 熟悉 AWS 和 Azure 云服务平台，能够进行云资源的管理和部署

竞赛获奖

- 全国大学生数学建模竞赛 一**等奖** 2023.09
- 中国研究生数学建模竞赛 二**等奖** 2024.05
- 国际大学生程序设计竞赛（区域赛）**银奖** 2024.10
- 全国大学生机器人大赛 一**等奖** 2024.07

实习经历

百度——人工智能实验室

机器学习工程师实习生 **2024.07 - 2024.12**

- 参与深度学习模型的优化工作，使用 PyTorch 框架对图像分类模型进行训练和调优，提升了模型的准确率和运行效率
- 负责数据预处理和特征提取，使用 Python 编写数据清洗脚本，优化了数据处理流程，提高了数据质量
- 参与了模型的部署工作，将训练好的模型部署到服务器上，提供了 RESTful API 接口，支持在线预测

阿里巴巴——数据科学与技术研究院

数据分析师实习生 **2024.03 - 2024.06**

- 负责大数据分析项目，使用 Hadoop 和 Spark 进行数据处理和分析，优化了数据处理流程，提高了分析效率
- 参与了数据可视化工作，使用 Tableau 和 Power BI 工具进行数据可视化，提供了直观的分析报告
- 负责数据清洗和特征工程，使用 Python 和 SQL 进行数据处理，提高了数据质量

项目经历

基于深度学习的图像识别系统

技术栈：Python, TensorFlow, Keras, OpenCV

- **模型设计**：使用卷积神经网络（CNN）构建图像分类模型，支持多种图像格式的输入
- **数据增强**：实现了数据增强模块，包括旋转、翻转、裁剪等操作，提升了模型的泛化能力
- **模型部署**：将训练好的模型部署到服务器上，提供了 RESTful API 接口，支持在线预测

分布式数据处理框架

技术栈：Python, MPI, OpenMP, NumPy

- **并行计算**：使用 MPI 和 OpenMP 实现并行计算，优化了数据处理流程，提升了计算效率
- **任务调度**：设计了任务调度模块，支持动态任务分配和负载均衡
- **性能优化**：通过优化内存管理和算法实现，减少了计算时间和资源消耗

基于深度学习的语音识别系统

技术栈：Python, TensorFlow, Keras, librosa

- **模型设计**：使用循环神经网络（RNN）构建语音识别模型，支持多种语音格式的输入
- **数据预处理**：实现了语音数据的预处理模块，包括降噪、分段、特征提取等操作
- **模型部署**：将训练好的模型部署到服务器上，提供了 RESTful API 接口，支持在线预测

Weitian LI

132-6262-0332 liweitianux@live.com github.com/liweitianux
Ph.D. in Physics Shanghai Jiao Tong University (SJTU) 1991 Sept. Shanghai

Highly-motivated Ph.D. in Physics (radio astronomy) with good foundations of math and statistics. Proficient in data modeling and analysis, and enthusiastic about computer and network technologies. With 10 years experience in Linux and BSD, skilled in Shell, Python, and C programming. Passionate about open source and share multiple projects on my GitHub. Meanwhile a DragonFly BSD operating system developer and a contributor to several other open source projects.

Competences & Languages

Operating Systems	Linux (10 years), DragonFly BSD & FreeBSD (7 years)
Programming	Python, C, Shell, R, Tcl/Tk
Tools	SSH, Git, Make, Tmux, Vi, Ansible
Data Analysis	R, Pandas; Matplotlib, ggplot2; Keras, Scikit-learn
Web Development	Flask, JavaScript, jQuery, Bootstrap
Languages	**English** — reading & writing (good); listening & speaking (conversant)

Education

September 2019 September 2013	School of Physics and Astronomy, **Shanghai Jiao Tong University** Ph.D. in Physics
June 2013 September 2009	Department of Physics and Astronomy, **Shanghai Jiao Tong University** Bachelor's Degree in Applied Physics

Computer Skills

- DragonFly BSD operating system developer: 200+ code commits; kernel and system utilities; participate in discussions and anwser questions in mailing lists and the IRC channel.
- Use Ansible to manage a VPS running DragonFly BSD that serves personal email, authoritative DNS, website, Git, IRC, etc.
- Built and administrate the workstations, a 4-node computer cluster, and network facilities for the team.
- Participated in building and testing the SKA high-performance cluster prototype (1 login node + 1 data node + 4 computing nodes) in Shanghai Astronomical Observatory.
- Designed and developed the whole website (Django, Bootstrap, jQuery) for "The 1st China–New Zealand Joint SKA Summer School" in 2014.

Personal Projects

- `atoolbox`: (Python, Shell) Various tools collected over the years, to help manage systems, do daily tasks, analyze data, etc.
- `dfly-update`: (Shell) A simple tool to update a DragonFly BSD system.
- `openrcs`: (C) Enhance `OpenBSD RCS`, to make it compatible with `GNU RCS`.
- `fg21sim`: (Python) Simulate the low-frequency radio sky maps.
- `cdae-eor`: (Python, Keras) Use a Convolutional Denoising Autoencoder (CDAE) to separate the faint EoR signal.
- `chandra-acis-analysis`: (Python, Shell, Tcl) Semi-automate utilities for analyzing X-ray astronomical data.
- `resume`: (LaTeX) The template and source files of *this resume*.

Research Achievements

- Developed the low-frequency radio sky image simulation software: `FG21sim`.
- Developed a suite of utilities to semi-automate the X-ray astronomical data analysis: `chandra-acis-analysis`.
- Separated the faint cosmological EoR signal along the frequency dimension using a Convolutional Denoising Autoencoder (CDAE).
- Classified the radio galaxies in the FIRST survey according to morphologies using a Convolutional Neutral Network (CNN).
- Significantly improved the modeling of radio halos, and integrated the instrumental effects of radio interferometers into the simulation pipeline.

- Improved the background modeling in X-ray spectral fitting achieved more accurate and robust fitting results.
- Published 2 first-author and 8 co-authored SCI papers.

Internships

August 2018 April 2018	Data Engineer @ Leadvisor Technology Inc. (startup company) - Search and scrape product and advertising data from Amazon web (Python, Requests, BeautifulSoup). - Deployed the Airflow server and database to periodically retrieve product sales and advertising data from Amazon. - Developed the website (Flask, jQuery) to help customers to optimize their advertising campaigns on Amazon.
September 2013 July 2013	Web Developer @ 97 Suifang (startup company) - Developed the back-end (Django) to support user registration, data storage and search. - Developed the front-end (jQuery, AJAX) to visualize the temporal variations of a patient's examination indicators.